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**PATENT SPECIFICATION** (21) **41273/68**

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Complete Specification  
entitled (54) ROOF GUTTERING.

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Related Art (56) N11.

The following statement is a full description of this invention, including the best method of performing it known to us:

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L144-69-3D-16P.C.

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The invention relates to roof guttering which when mounted on a structure, can expand and contract longitudinally.

It is known to form roof guttering of this type with a downwardly flanged extension of the rear wall thereof, the flange being received in an upwardly turned channel part formed on gutter holding brackets fixed on a structure. In another type the upper part of the brackets project above the rear wall of the guttering, and are turned downwardly manually over the top edge of the guttering rear wall to clamp the guttering on the structure.

The present invention has been devised to provide roof guttering and holding means therefor, which when fixed on a building, the guttering may be easily mounted on and dismounted from the holding means by a simple snap movement of the guttering, and without disturbing soffit holding means if such are provided.

Several embodiments of the invention will be described with reference to the annexed drawings, wherein:

Fig. 1 is a diagrammatic end view illustrating the mounting of a guttering member onto a bracket, and also illustrating soffit holding means fixed on the structure and supporting a soffit panel.

Fig. 2 is a perspective view of the bracket of Fig. 1.

Figs. 3 and 4 are perspective views of modified forms of bracket.

Fig. 5 is a similar view to Fig. 1 illustrating a guttering member, a gutter reinforcing member, and a soffit panel supported on the bracket of Fig. 4.

Figs. 6 and 7 are diagrammatic end views of modified forms of guttering members and a bracket therefor.

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The brackets 1, Figs 1 and 2, each comprise a base 2 whereby they are fixed on the structure 3, and upper and lower arms 4,5 diverging outwardly from each side of the base 1. An inverted channel head 6 is formed on the upper arm 4 and a spring limb extension 7 is formed on the lower arm 5. The channel head 6 forms a hook-on catch for guttering and the extension 7 forms a snap-on catch for the guttering.

The bracket 8, Fig. 3 is adapted to support a gutter reinforcing member 8a. For this purpose, the bracket 8 comprises a base having an upper outwardly diverging finger 10 on each side thereof and each finger 10 has an upwardly projecting hook-on catch 11 integral therewith. The base also has a lower outwardly diverging arm 12 with a downwardly projecting snap-on catch 13 thereon. The bracket 8 also includes an upwardly projecting arm 14 which extends into an inverted channel 15 to constitute a holder for the reinforcing member 8a. As shown in Fig. 3, the inverted channel 15 is set upwardly at an angle to facilitate mounting the guttering on the bracket 8.

The bracket 8a, Fig. 4, is similar to the bracket 8 but it is shaped to include only one catch 11 and a soffit supporting channel 11a located beneath the catch 11.

The brackets 16, Figs. 5 and 6 each comprise a base 17 having upper and lower arms 18 projecting outwardly from the base 17. End flanges 19 formed on the arms 18 respectively form hook-on and snap-on catches.

As illustrated in Figs. 1 and 5, the front wall of the guttering 20 is patterned as desired and the upper edge thereof is rolled inwardly to form a bead 21. The floor 22 of the guttering 20 is flat, and the rear wall is set inwardly and downwardly in curves forming a snap-on catch engaging

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member 23 a short distance from the floor 3, and is then set inwardly and upwardly and terminates in an inverted channel head forming a hook-on engaging member 24.

To mount the guttering 20 on the brackets 1, Fig. 1, the hook-on catch engaging member 24 is tilted over the channel head 6 of brackets 1. The guttering 20 is then turned inwardly about the channel head 6 and the catch engaging member 23 is "snapped" past the catch 7. The guttering can be dismounted from the brackets 1 by reversing this procedure and alternatively the mounting procedure can commence on the catch 7 and completed by "snapping" the catch engaging member 24 over the channel heads 6.

To mount the guttering 20 on the brackets 8 or 8a, a similar procedure is adopted. In addition, the inverted channel head 15 of each bracket 8 or 8a has a reinforcing member 9 bolted thereto and is provided with a bolt slot or hole 25 for this purpose. When the guttering 20 has been mounted on the brackets 8 or 8a, the holders 15 are bent downwardly into the guttering 20 to permit the outer end of each reinforcing member to "snap" into engagement with the guttering head 21.

The guttering 26, Figs. 6 and 7, has an inverted channel head, hook-on catch engaging member 27 formed thereon as previously, and a snap-on catch engaging member is formed in the floor 28 thereon, and takes the form of a channel 29. As seen in Fig. 5, the channel 29 is formed by a downward step 30 in the floor 28 and by the rear wall 31 of the guttering. As seen in Fig. 6, the channel 29 is an inverted channel formed in the floor 28 of the guttering.

The guttering 26 is mounted on and dismounted from the brackets 16 in a similar manner to that previously described

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If desired, soffit panel holding means ("trim" member) 32 may be fixed to the structure 3. It or they consist of a base 33 for fixing it to the structure behind the guttering, a channel section part 34 integral with the base 33 adapted to project outwardly from the structure towards the guttering, and a downwardly and outwardly projecting stop flange 35 formed integrally with and depending from the channel 34.

The trim member(s) 32 are fixed to the structure through base 33 in such position that the channel 34 thereof is or can be located over the exposed edge of a soffit panel 36 fixed under the eaves of the structure. The stop flange(s) 35 are abutted by the rear wall of the guttering mounted upon the brackets 1, 8, 16.

However, as seen in Fig. 4, the brackets 8a incorporate channel 11a which support the soffit panel 36 and the lower limb 13a thereof may be bent to provide the stop flange 35 previously referred to. That is, if the brackets 8, Fig. 3, are used, the trim member 32 is used, whereas the brackets 8a, Fig. 4, do away with the need for the trim member 32.



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The claims defining the invention are as follows:-

1. Roof guttering having a hook-on catch engaging member and a snap-on catch engaging member adapted for engagement and disengagement with a structure by a snap movement of the guttering. (26.7.68)
2. Roof guttering and mounting means therefor, said mounting means consisting of brackets adapted for fixing to a support, each said bracket having a hook-on catch on one end and a spring-on catch on the other end, said guttering having a hook-on catch engaging member and a snap-on catch engaging member adapted for engagement and disengagement by a snap movement of the guttering. (26.7.68)
3. Roof guttering and mounting means therefor as claimed in claim 2 wherein each said bracket comprises a base having upper and lower outwardly diverging arms, said upper arm having an inverted channel head forming the hook-on catch, said lower arm having a spring limb extension forming the lower snap-on catch. (26.7.68)
4. Roof guttering and mounting means therefor as claimed in claim 2, wherein each said bracket comprises a base having an upper outwardly diverging finger on each side thereof, each said finger having an upwardly projecting hook-on catch; said base having a lower outwardly diverging arm with a downwardly projecting snap-on catch thereon; and including an upwardly projecting arm extending into an inverted channel to constitute a holder for a gutter reinforcing member. (26.7.68)
5. Roof guttering and mounting means therefor as claimed in claim 2, wherein each said bracket comprises a base having an upper outwardly diverging finger on one side thereof, said finger having an upwardly projecting hook-on

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catch; a soffit supporting channel formed on said base beneath the finger and projecting towards the guttering; a lower outwardly diverging arm formed on the base adjacent the channel said arm having a downwardly projecting snap-on catch thereon; said base having an upwardly projecting arm formed thereon above the snap-on catch, said arm extending into an inverted channel to constitute a holder for a gutter reinforcing member. (26.7.68)

6. Roof guttering and mounting means therefor as claimed in claim 2 wherein each said bracket comprises a base having upper and lower arms projecting outwardly and with end flanges on the arms projecting inwardly and forming hook-on and snap-on catches respectively. (26.7.68)

7. Roof guttering and mounting means therefor as claimed in any one of Claims 1 to 4 or 6, including soffit panel supporting means fixed to the structure behind the ~~structure~~ <sup>guttering</sup>, said supporting means including a soffit supporting channel projecting outwardly from the structure towards the guttering. (26.7.68)

8. Roof guttering and mounting means therefor as claimed in claim 5 or 7, wherein the soffit supporting channel extends into a stop flange projecting downwardly therefrom and outwardly towards the guttering. (26.7.68)

9. Roof guttering having mounting brackets as claimed in claim 3 or 5, said guttering having part of its rear wall set inwardly and downwardly in curves forming the snap-on catch engaging member and from said catch engaging member set upwardly and having an inverted channel head forming the hook-on catch engaging member. (26.7.68)

10. Roof guttering having mounting brackets as claimed

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in claim 4, said guttering having its rear wall flanged inwardly at the top to form the hook-on catch engaging member, and having a shallow channel formed in the floor and adjoining the rear wall, said channel constituting the snap-on catch engaging member. (26.7.68)

11. Roof guttering and mounting means therefor as herein described with reference to Figs. 1 and 2, or Figs. 3, 4 or 5, or Figs. 6 and 7. (26.7.68)

DATED THIS 23rd day of July, 1969

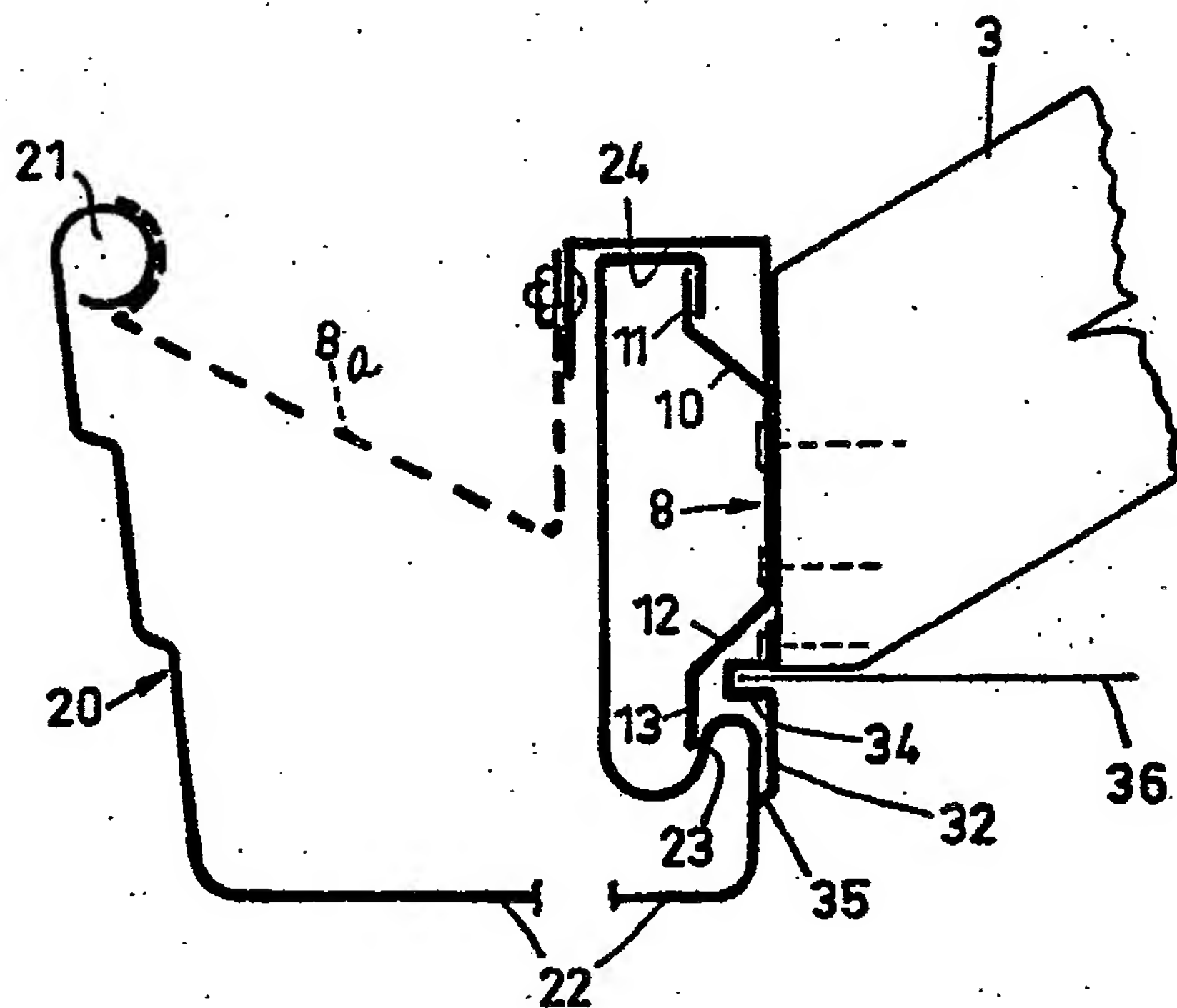
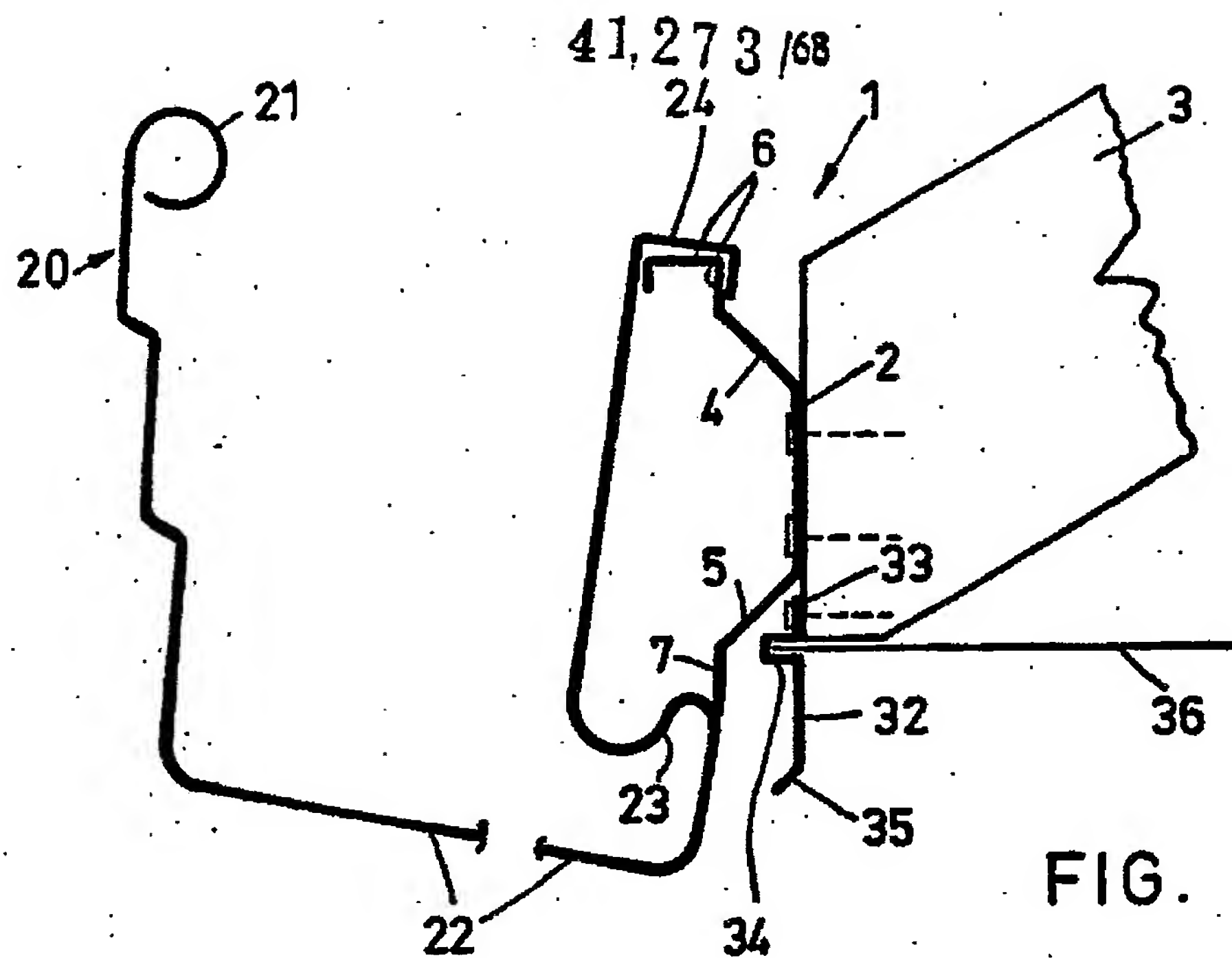
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FIG. 3.

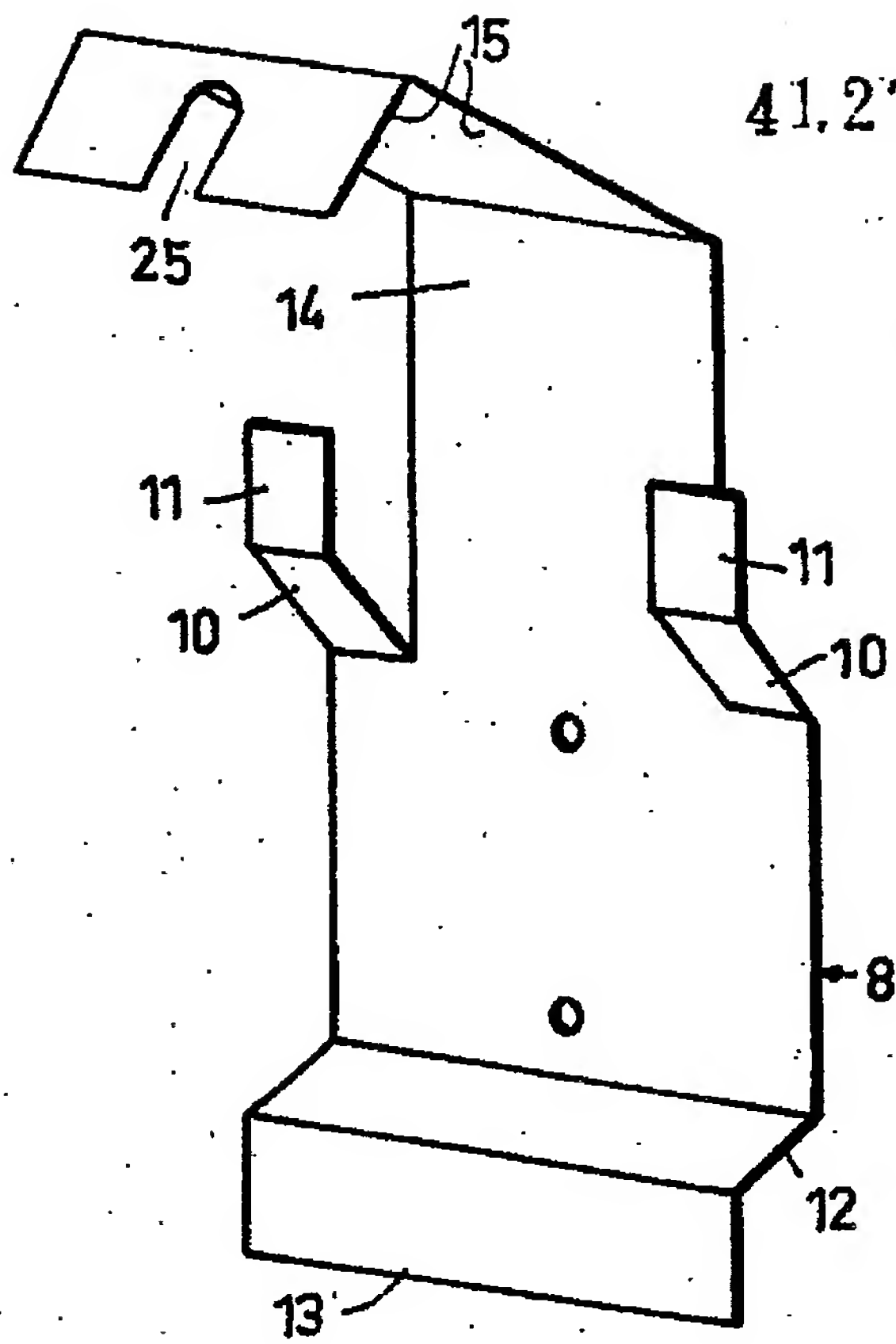


FIG. 4.

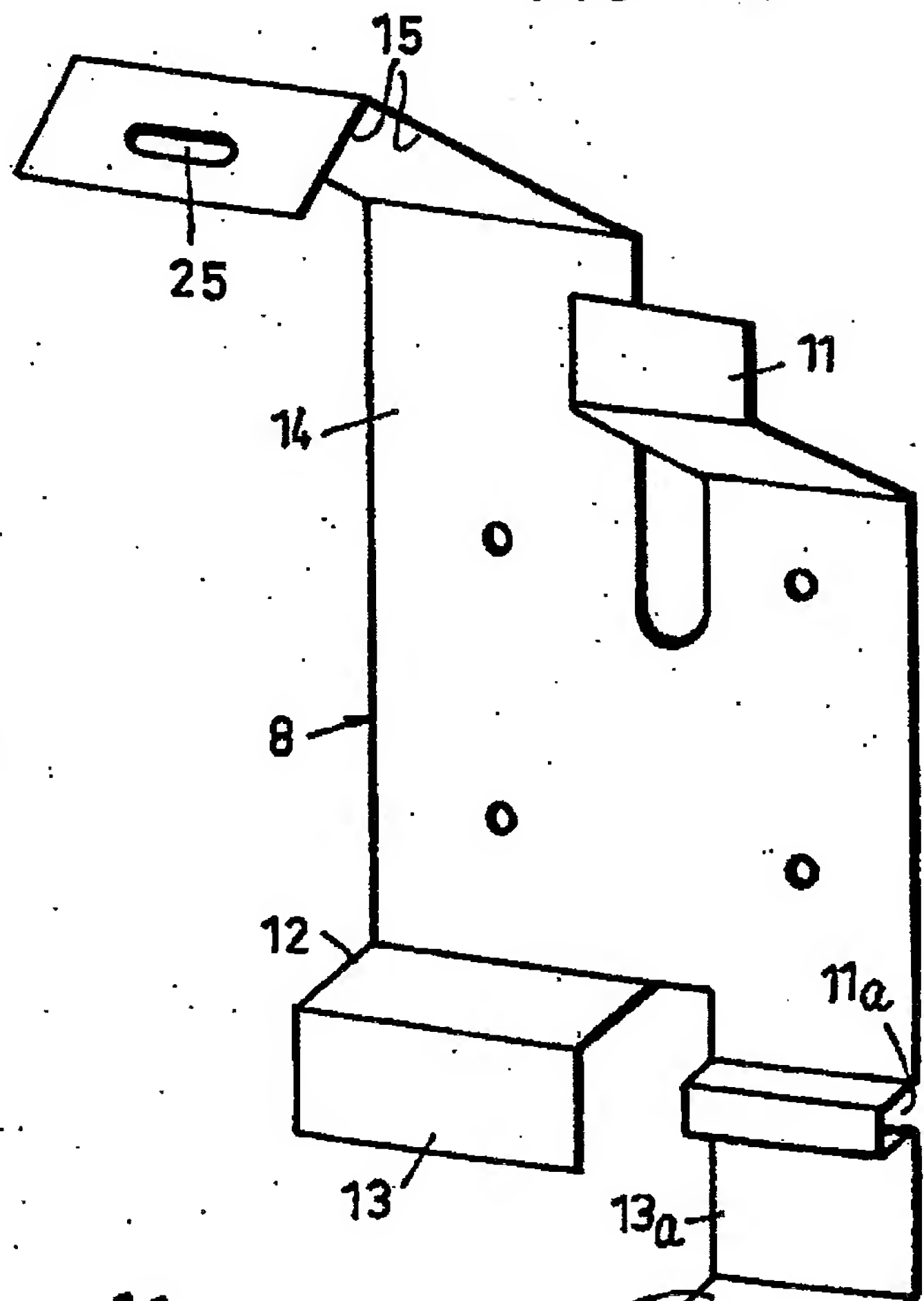


FIG. 2.

